

CLAIMS

I Claim,

1. A disposable sterile syringe with retractable taper includes a plunger, a barrel, a needle lock and a taper; wherein, the plunger having at its rear end disposed with a flange, a plunger locking holder comprised of a locking ring holder and a locking nose cone at its front end, and a ring plug provided surrounding the locking ring holder; the barrel having at its rear end provided with a flange, a range of scale on the body of the barrel, a locking nipple on the upper edge of a lower needle lock and another locking nipple on the lower needle lock being provided in sequence in the inner edge of the barrel on the distal side from the flange; the needle lock comprised of an upper needle lock and the lower needle lock, an injection way penetrating through the upper needle lock; a scalene cone externally expanding toward the side of the lower needle lock being disposed on the upper needle lock at where close to the side of the lower needle lock ; a groove being provided surrounding the external circumference of the injection way of the upper needle lock and divided into an upper groove and a lower groove by a partitioning plate, the upper groove being disposed with an internal thread while the lower needle lock being comprised of a through hole and a flange, and a retainer edge being provided on one side of the inner wall of the through hole; and the taper, having its one end fixed with a needle and another end disposed with a flange with the taper contained in the upper

needle lock of the needle lock is characterized by that :
the lower needle lock being inserted into the injection
way by the through hole, the needle lock then placed
into the barrel, the needle lock secured in the barrel
5 by having the locking nipple on the upper edge of the
lower needle lock and the locking nipple on the lower
needle lock respectively engaged to the flange of the
lower needle lock and the scalene cone on the upper
needle lock, the taper being placed in the upper needle
10 lock by having the flange of the taper screwed into
the upper groove, a cap being provided to cover up the
needle, and the plunger being inserted into the barrel;
upon completing the injection the plunger being pushed
all way down the barrel, the locking nose cone at the
15 front end of the plunger being pushed into the through
hole of the lower needle lock and secured by having
the hooking member interlocked with the retainer edge
of the through hole, and the plunger being pulled back
for both of the needle lock and the taper to retract
20 into the barrel.

2. A disposable sterile syringe with retractable taper
as claimed in Claim 1, wherein, a cut is reserved on
the plunger at where close to the locking ring holder
at a location exactly falling on the flange of the barrel
25 when the plunger is pulled back to its extreme; and
the plunger exposed from the cut after the use of the
syringe can be broken up.

3. A disposable sterile syringe with retractable taper
as claimed in Claim 1, wherein, a groove is provided
30 surrounding the external circumference of the injection

way in the upper needle lock and is divided into the upper groove and the lower groove with a partitioning plate.

4. A disposable sterile syringe with retractable taper as claimed in Claim 1, wherein, the inner circumference of the upper groove is threaded to engage the flange of the taper.
5. A disposable sterile syringe with retractable taper as claimed in Claim 1, wherein, the scalene cone on the upper needle lock external expanding towards the side of the lower needle lock.
- 10 6. A disposable sterile syringe with retractable taper as claimed in Claim 1, wherein, the locking nose cone is made in an arrow shape having on its one side formed with a guiding edge and a hooking member for the locking nose cone to be interlocked with the retainer edge of the through hole with the hooking member.
- 15 7. A disposable sterile syringe with retractable taper as claimed in Claim 1, wherein, the body of the barrel is provided with a range of scale.
- 20 8. A disposable sterile syringe with retractable taper as claimed in Claim 1, wherein, a cap is provided to cover up the taper.